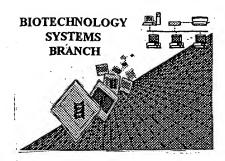
0400

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

| Application Serial Number: | 10/017.081 | BEST AVAILABLE COPY |
|----------------------------|------------|---------------------|
| Source: | OIPE, | - |
| Date Processed by STIC: | 1/3/02 | |
| | 1 1 1 | |

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 3.1 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE: SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility-that-the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

- 1. EFS-Bio (httm, EFS Submission (User Manual ePAVE)
- 2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
- Hand Carry directly to:
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
 - U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION SERIAL NUMBER: 10/0/7,08/ | _ | |
|-------------------------------------|--|------------|--|
| ATTN: NEW RULES CASE | S: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO S | SOFTWAF | |
| 1Wrapped Nucleics Wrapped Aminos | The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping." | | |
| 2Invalid Line Length | The rules require that a line not exceed 72 characters in length. This includes white spaces. | | |
| 3Misaligned Amino Numbering | The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead. | | |
| 4Non-ASCII | The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text. | | |
| 5Variable Length | Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing. | | |
| 6Patentin 2.0 "bug" | A "bug" in Patentin version 2.0 has caused the <220>-<223> acction to be missing from amino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences. | <u></u> . | |
| 7Skipped Sequences (OLD RULES) | Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped | Production | |
| | Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences. | | |
| 8Skipped Sequences' (NEW RULES) | Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000 | | |
| Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents. | | |
| 0Invalid <213> Response | Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is regulred when <213> response is Unknown or is Artificial Sequence | | |
| Use of <220> | Sequence(s) /5 // missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) | | |
| 2PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk. | | |
| 3Misuse of n | n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide. | | |

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING DATE: 01/03/2002 PATENT APPLICATION: US/10/017,081 TIME: 14:52:43

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Output Set: N:\CRF3\01032002\J017081.raw

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          Kuo, Sophia S.
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  24
          Roy, Margaret Ann
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          Stewart, Timothy A.
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PATENT APPLICATION: US/10/017,081

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PATENT APPLICATION: US/10/017,081

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10/017, 1 E

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Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARYDATE: 01/03/2002PATENT APPLICATION: US/10/017,081TIME: 14:52:44

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L:370 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:445 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/017,081

DATE: 01/03/2002 TIME: 14:52:44

Input Set : A:\Seq__Listing_for_P2630P1C69.wpd

Output Set: N:\CRF3\01032002\J017081.raw

L:6387 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:157

 $L:6389\ M:258\ W:$ Mandatory Feature missing, <220> FEATURE:

L:6389 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:

L:7713 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191

L:7719 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191

L:7729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191

L:8724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215

L:10653 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 L:10655 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265 L:10657 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:265